

AMENDMENTS TO THE CLAIMS

1 1. (Currently amended) A method of displaying one or more periodically updated channels
2 of electronic information received over a network from a content server, the method
3 comprising the computer-implemented steps of:
4 receiving and storing at the client, [channel selection information defining a subset of
5 channels that are selected from among a plurality of available content] content
6 channel information defining the plurality of content channels available from
7 various sources;
8 selecting a subset of channels from among a plurality of available content channels;
9 periodically retrieving updated channel content for the subset of channels from a content
10 server across a public network, without communicating the channel selection
11 information across the network;
12 [generating] synthesizing one or more original, personalized electronic documents from
13 the updated channel content from various sources;
14 displaying the one or more documents;
15 carried out by a personal server that executes at the client.

1 2. (Currently amended) A method as recited in Claim 1, further comprising the steps of
2 [creating and storing at the client] allowing the user to create and store at the client,
3 custom, personalized virtual space organization information defining [an] a spatial
4 organization of content for the subset of channels [within a virtual display space], and
5 wherein the step of [generating] synthesizing one or more electronic documents
6 comprises the step of [generating] synthesizing one or more electronic documents that
7 contain the updated channel content from various sources based on the virtual space
8 information.

1 3. (Original) A method as recited in Claim 2, wherein the step of periodically retrieving
2 updated channel content further comprises the steps of:
3 receiving an update specification for one channel among the subset of selected channels;
4 identifying an update method and time value within the update specification;

5 in accordance with the update specification, issuing a request for updated content data
6 created after the time value, using the update method.

1 4. (Currently amended) A method as recited in Claim 1, further comprising the steps of
2 receiving information defining a plurality of rendering contexts, wherein each of the
3 rendering contexts is associated with one of the selected channels, and wherein the step
4 of [generating] synthesizing one or more electronic documents comprises the step of
5 rendering the electronic documents using the rendering context that is associated with one
6 of the selected channels from which the updated channel content was obtained.

1 5. (Original) A method as recited in Claim 4, wherein each rendering context comprises
2 a style sheet, template, script, helper reference, or applet.

1 6. (Currently amended) A method as recited in Claim 4, wherein the rendering context
2 comprises a Cascading Style Sheet document, the updated channel content comprises
3 HTML data, and wherein the [generating] synthesizing step comprises combining the
4 rendering context with the updated channel content to result in creating and storing an
5 HTML page that is capable of display by a browser.

1 7. (Currently amended) A method as recited in Claim 4, wherein the rendering context
2 comprises a script, and wherein the [generating] synthesizing step comprises applying the
3 updated channel content to the script as input, executing the script, and receiving output
4 from the script that is capable of display by a browser.

1 8. (Currently amended) A method as recited in Claim 7, wherein the steps of receiving,
2 selecting, retrieving, [generating] synthesizing, and displaying are carried out by a
3 personal server that is executed at the client, and wherein the script is executed by an
4 embedded processor in the personal server.

1 9. (Original) A method as recited in Claim 4, wherein the rendering context comprises a
2 reference to a program that is stored at the client, and wherein the [generating]

3 synthesizing step comprises executing the program using the updated channel content as
4 input and receiving output from the program that is capable of display by a browser.

1 10. (Currently amended) A method as recited in Claim 4, wherein the rendering context
2 comprises an applet, and wherein the [generating] synthesizing step comprises executing
3 the applet using the updated channel content as input and displaying programmatic output
4 from the applet using a browser.

1 11. (Original) A method as recited in Claim 1, further comprising the steps of:
2 identifying whether the updated channel content contains an identification of an
3 embedded channel;
4 requesting second updated channel content for the embedded channel.

1 12. (Currently amended) A method as recited in Claim 1, wherein the step of [generating]
2 synthesizing one or more electronic documents further comprises the steps of:
3 receiving the updated channel content, a virtual space specification, and a page
4 organization specification;
5 replacing one or more tokens in the updated channel content with other channel content
6 information or personal content information located on the client;
7 iterating the replacing step over all updated channel content for all channels that are
8 identified in the channel selection information.

1 13. (Currently amended) A method as recited in Claim 1, wherein the step of [generating]
2 synthesizing one or more electronic documents further comprises the steps of
3 receiving the updated channel content, a virtual space specification, and a page
4 organization specification;
5 receiving information defining a plurality of rendering contexts, wherein each of the
6 rendering contexts is associated with one of the selected channels;
7 replacing one or more tokens in the updated channel content with other channel content
8 information or personal content information located on the client;

9 iterating the replacing step over all updated channel content for all channels that are
10 identified in the second information;
11 creating one or more static content elements in an electronic document based on a
12 rendering context that is associated with one of the selected channels from which
13 the updated channel content was obtained

1 14. (Cancelled)

1 15. (Currently amended) A method as recited in Claim 1, further comprising the step of
2 generating and displaying a user interface display that includes a list of available
3 channels, wherein the list of available channels is created based on issuing a query to a
4 channel database that is stored in association with a personal server executed at the client
5 that carries out the [generating] synthesizing and displaying steps.

1 16. (Currently amended) A method as recited in Claim 1, further comprising the step of
2 generating and displaying a user interface display that includes a list of available
3 channels, wherein the list of available channels is created based on issuing a query to a
4 channel database that is stored in association with a personal server executed at the client
5 that carries out the [generating] synthesizing and displaying steps, and based on a user-
6 specific channel topology that is retrieved from the channel database.

1 17. (Original) A method as recited in Claim 1, further comprising the steps of
2 rescheduling the retrieving step when the updated channel content cannot be retrieved
3 immediately.

1 18. (Original) A method as recited in Claim 1, wherein displaying the one or more
2 electronic documents comprises the steps of delivering the electronic documents from a
3 personal server executed in the client to a browser executed in the client over a TCP/IP
4 loopback interface of the client.

1 19. (Original) A method as recited in Claim 1, wherein displaying the one or more
2 electronic documents comprises the steps of:
3 providing a Web server and a browser in association with the client;
4 loading one or more virtual display spaces from a personal server that is provided in the
5 client;
6 generating a view of the one or more virtual display spaces by using the browser to
7 request the one or more virtual display spaces from the Web server over a
8 loopback interface of the client.

1 20. (Original) A method as recited in Claim 19, wherein the step of generating a view
2 includes the step of directing the browser to display information located at a hostname
3 that is associated with the loopback interface of the client.

1 21. (Original) A method as recited in Claim 19, further comprising the steps of:
2 binding the Web server of the client to a pre-defined port that is associated with the
3 loopback interface of the client;
4 placing the Web server in a listening mode;
5 using the browser, issuing a display request to a hostname that is associated with the
6 loopback interface.

1 22. (Original) A method as recited in Claim 19, further comprising the steps of:
2 examining the IP address of the request;
3 determining whether requests from the IP address are permitted to view the virtual
4 display space, based on a stored mapping of IP addresses to identifiers of virtual
5 display spaces;
6 generating a view of the electronic documents from the virtual display space only when
7 requests from the IP address are permitted to view the virtual display space.

1 23. (Original) A method as recited in Claim 19, further comprising the steps of:

2 rendering the requested one or more documents from the loaded virtual display space
3 using a Web page synthesizer that is provided in the personal server;
4 providing the rendered one or more electronic documents to the Web server;
5 serving the rendered one or more electronic documents from the Web server to the
6 browser over the loopback interface.

1 24. (Original) A method as recited in Claim 19, wherein the embedded Web server is a
2 proxy server that binds to an arbitrary port.

1 25. (cancelled)

1 26. (Currently amended) A computer-readable medium carrying one or more sequences of
2 instructions for displaying one or more periodically updated channels of electronic
3 information received over a network from a content server, which instructions, when
4 executed by one or more processors, cause the one or more processors to carry out the
5 steps of:
6 receiving and storing at the client, [channel selection information defining a subset of
7 channels that are selected from among a plurality of available content] content
8 channel information defining the plurality of content channels available from
9 various sources;
10 selecting a subset of channels from among a plurality of available content channels;
11 periodically retrieving updated channel content for the subset of channels from a content
12 server across a public network, without communicating the channel selection
13 information across the network;
14 [generating] synthesizing one or more original, personalized electronic documents from
15 the updated channel content from various sources;
16 displaying the one or more documents;
17 carried out by a personal server that executes at the client.

1 27. (Currently amended) An apparatus for displaying one or more periodically updated
2 channels of electronic information received over a network from a content server,
3 comprising:
4 means for receiving and storing at the client, [channel selection information defining a
5 subset of channels that are selected from among a plurality of available content]
6 content channel information defining the plurality of content channels available
7 from various sources;
8 means for selecting a subset of channels from among a plurality of available content
9 channels;
10 means for periodically retrieving updated channel content for the subset of channels from
11 a content server across a public network, without communicating the channel
12 selection information across the network;
13 means for [generating] synthesizing one or more original, personalized electronic
14 documents from the updated channel content from various sources;
15 means for displaying the one or more documents;
16 means for carrying out the above steps by a personal server that executes at the client.

1 28. (Currently amended) An apparatus for displaying one or more periodically updated
2 channels of electronic information received over a network from a content server,
3 comprising:
4 a network interface that is coupled to the data network for receiving one or more packet
5 flows therefrom;
6 one or more processors;
7 one or more stored sequences of instructions which, when executed by the processors,
8 cause the processors to carry out the steps of:
9 receiving and storing at the client, [channel selection information defining a
10 subset of channels that are selected from among a plurality of available
11 content] content channel information defining the plurality of content
12 channels available from various sources;

13 selecting a subset of channels from among a plurality of available content
14 channels;
15 periodically retrieving updated channel content for the subset of channels from
16 a content server across a public network, without communicating the
17 channel selection information across the network;
18 [generating] synthesizing one or more original, personalized electronic
19 documents from the updated channel content from various sources;
20 displaying the one or more documents;
21 carried out by a personal server that executes at the client.

1 29. (Currently amended) A personal server that executes at the client and is capable of
2 displaying one or more periodically updated channels of electronic information received
3 over a network from a content server, comprising:
4 a channel manager configured to receive and store, in a channel database of the personal
5 server, channel selection information defining a subset of channels that are
6 selected from among a plurality of available content channels, and to periodically
7 retrieve updated channel content for the subset of channels from a content server
8 across a public network, without communicating the channel selection
9 information across a network;
10 a page synthesizer configured to [generate] synthesize one or more original, personalized
11 electronic documents that contain the updated channel content from various
12 sources and to provide the one or more electronic documents to a browser for
13 display.

1 30. (Currently amended) A personal server as recited in Claim 29, further comprising:
2 a virtual space designer configured to receive and store virtual space organization
3 information defining an organization of content for the subset of channels within a
4 virtual display space;
5 a virtual space manager configured to [generate] synthesize one or more original,
6 personalized electronic documents that contain the updated channel content based

7 on the virtual space organization information in coordination with the page
8 synthesizer.